

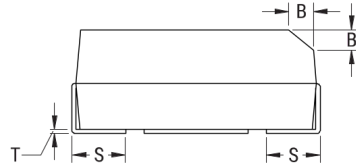
T530D687M2R5ATE006

T530, Tantalum, Polymer Tantalum, Multi-Anode, 680 uF, 20%, 2.5 VDC, SMD, Polymer, Molded, Multiple Anodes, Low ESR, 6 mOhms, 7343, Height Max = 3.1mm

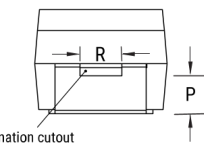
CATHODE (-) END VIEW



SIDE VIEW

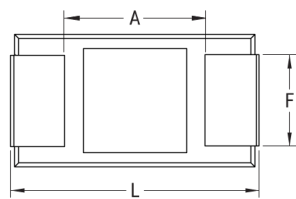


ANODE (+) END VIEW



Termination cutout at KEMET's option, either end

BOTTOM VIEW



Click [here](#) for the 3D model.

Dimensions

Footprint	7343
L	7.3mm +/-0.3mm
W	4.3mm +/-0.3mm
H	2.8mm +/-0.3mm
T	0.13mm REF
S	1.3mm +/-0.3mm
F	2.4mm +/-0.1mm
A	3.6mm MIN
B	0.5mm +/-0.15mm
P	0.9mm REF
R	1mm REF
X	0.1mm +/-0.1mm

Packaging Specifications

Packaging	T&R, 178mm
Packaging Quantity	500

General Information

Series	T530
Dielectric	Polymer Tantalum
Style	SMD Chip
Description	SMD, Polymer, Molded, Multiple Anodes, Low ESR
Features	Low ESR
RoHS	Yes
Termination	Tin
AEC-Q200	No
Component Weight	307.51 mg
Shelf Life	52 Weeks
MSL	3

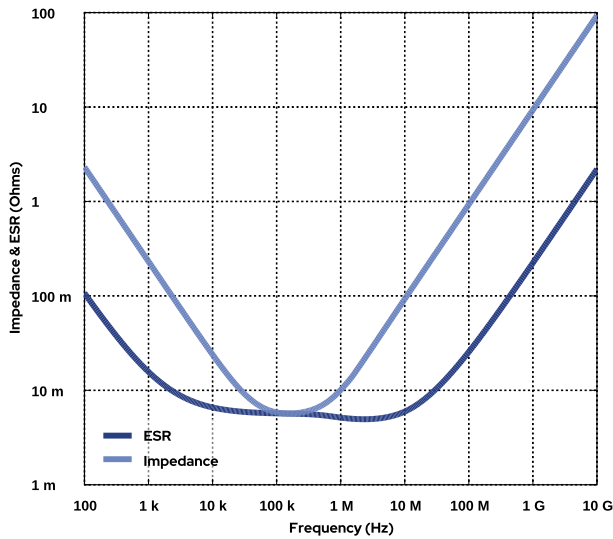
Specifications

Capacitance	680 uF
Capacitance Tolerance	20%
Voltage DC	2.5 VDC (105C), 1.68 VDC (125C)
Temperature Range	-55/+125°C
Rated Temperature	105°C
Life	2000 Hrs (125C)
Humidity	60C, 90% RH, 1000 Hours, No Load
Dissipation Factor	8% 120Hz 25C
Failure Rate	N/A
Resistance	6 mOhms (100kHz 25C)
Ripple Current	6500 mA (rms, 100kHz 45C), 4550 mA (rms, 85C), 1625 mA (rms, 125C)
Leakage Current	170 uA (5min 25°C)

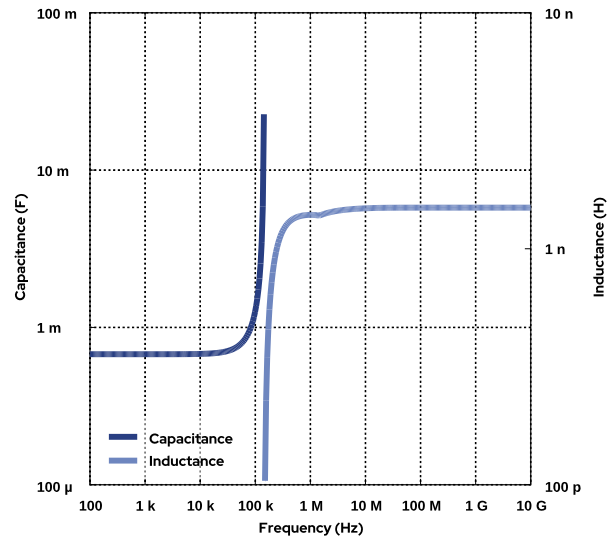
Simulations

For the complete simulation environment please visit [K-SIM](#).

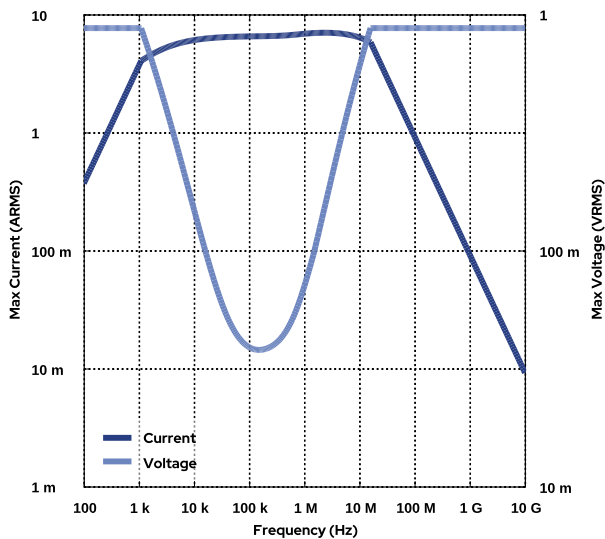
Impedance and ESR



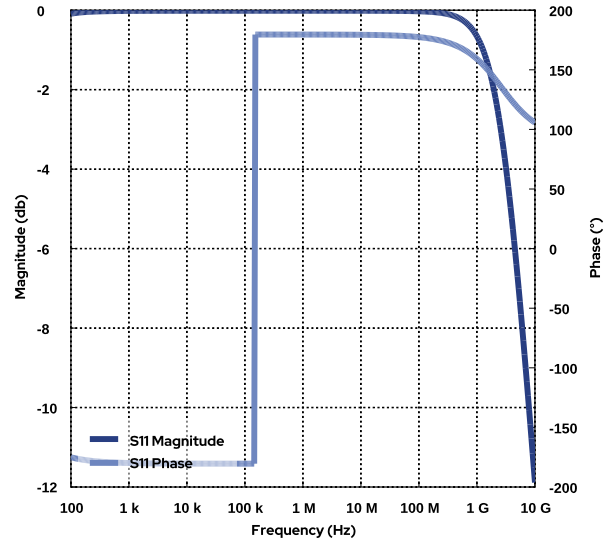
Capacitance and Inductance

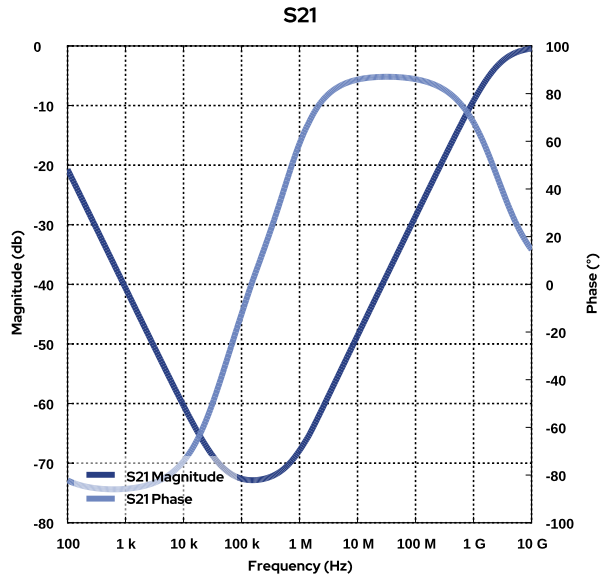


Current and Voltage



S11





These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.
- The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
- The effects shown herein are based on measured data from a multiple part sample of the parts in question.
- Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.
- The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are calculated for each frequency and are not combined with voltages generated at any other harmonics.
- Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

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If you have any questions please contact K-SIM.